CLAIM AMENDMENTS

Claim Amendment Summary

Claims pending

• Before this Amendment: Claims 1-17.

After this Amendment: Claims 1-18

Non-Elected, Canceled, or Withdrawn claims: None

Amended claims: 1,4,9,13 and 17

New claims: 18

Claims:

1. (Currently Amended) A processor-readable medium having processor-executable instructions that, when executed by a processor, performs acts comprising:

obtaining a digital good;

partitioning the digital good into a plurality of regions;

calculating rational statistics of one or more the regions of the plurality, so that the statistics of a region are representative of the region, wherein the calculating comprises generating the rational statistics of one or more regions of the plurality via a hashing function having quotient of two weighted, linear, statistical combinations and wherein the rational statistics are semi-global

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characteristics;

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quantizing the rational statistics;

marking the digital good with the quantized <u>rational</u> statistics of the plurality of the regions.

- **2. (Original)** A medium as recited in claim 1, wherein the calculating comprises generating the rational statistics of one or more regions of the plurality via a hashing function.
- **3. (Original)** A medium as recited in claim 1, wherein the calculating comprises generating the rational statistics of one or more regions of the plurality via a hashing function employing a quotient of at least two weighted linear combinations of statistics of the one or more regions of the plurality.
- 4. (Currently Amended) A medium as recited in claim 1, wherein the calculating comprises generating the rational statistics of one or more regions of the plurality via a hashing function, h, where h of the hashing function is

$$h_i = \frac{\sum_{j \in R_i} \alpha_{ij} s_j}{\sum_{j \in R_i} b_{ij} s_j}$$

where:

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- a_{ij} is the j^{th} element of a_i and a_i are a pseudo-random generated weight factors;
- ullet b_{ij} is the j^{th} element of b_i and b_i are a pseudo-random generated weight factors;
 - s denotes the digital good of dimension $N \times 1$;
 - R_i are the plurality of regions, where $R_i \subseteq \{1,2,...,N\}$.
- **5. (Original)** A medium as recited in claim 1, wherein the partitioning comprises segmenting the digital good into a plurality of overlapped regions.
- **6. (Original)** A medium as recited in claim 1, wherein the marking comprises embedding a watermark via quantization.

7. (Cancelled)

8. (Original) A computer comprising one or more processor-readable media as recited in claim 1.

9. (Currently Amended) A processor-readable medium having processor-executable instructions that, when executed by a processor, performs acts comprising

obtaining a digital good; and

using quantization, watermarking the digital good with a watermark, wherein such quantization is based upon semi-global characteristics of regions of the digital good, wherein such semi-global characteristics are generated via a hashing function employing a quotient of at least two weighted linear combinations of statistics of the regions of the digital good.

10. (Cancelled)

11. (Cancelled)

12. (Original) A computer comprising one or more processor-readable media as recited in claim 9.

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(Currently Amended) A system for facilitating the protection of

digital goods, the system comprising:

a partitioner configured to segment a digital good into a plurality of

regions;

a region-statistics calculator configured to calculate rational statistics of

one or more of the plurality of regions, wherein the statistics of a region are

representative of that region, wherein the region-statistics calculator is further

configured to generate the rational statistics of one or more regions of the

plurality via a hashing function having quotient of two weighted, linear, statistical

combinations and wherein the rational statistics are semi-global characteristics;

a region quantizer configured to quantize such the rational statistics of a

region;

a digital-goods marker configured to generate a marked good using the

quantized rational statistics.

(Original) A system as recited in claim 13, wherein the region-

statistics calculator is further configured to generate the rational statistics of one

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or more regions of the plurality via a hashing function.

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15. (Original) A system as recited in claim 13, wherein the regionstatistics calculator is further configured to generate the rational statistics of one or more regions of the plurality via a hashing function, employing a quotient of at least two weighted linear combinations of statistics of the one or more regions of the plurality.

16. (Original) A system as recited in claim 13, wherein the partitioner is further configured to segment a digital good into a plurality of overlapping regions.

17. (Currently Amended) A system as recited in claim 13, wherein the region statistics calculator is further configured to generate the rational statistics of one or more regions of the plurality via a hashing function, h, where h of the hashing function is

$$h_i = \frac{\sum_{j \in R_i} \alpha_{ij} s_j}{\sum_{j \in R_i} b_{ij} s_j}$$

where:

 \bullet a_{ij} is the j^{th} element of a_i and a_i are a pseudorandom generated weight factors;

Serial No.: 10/764,345 Atty Docket No.: MS1 -1811US Atty/Agent: Kasey C. Christie $\bullet \qquad \qquad b_{ij} \ \ \text{is the } \ j^{th} \ \ \text{element of} \qquad b_i \ \ \text{and} \ \ b_i \ \ \text{are a pseudorandom}$ generated weight factors;

• s denotes the digital good of dimension $N \times 1$;

• R_i are the plurality of regions, where $R_i \subseteq \{1,2,...,N\}$.

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18. (New) A processor-readable medium having processor-executable instructions that, when executed by a processor, performs acts comprising:

obtaining a digital good;

partitioning the digital good into a plurality of regions, wherein the partitioning comprises segmenting the digital good into a plurality of overlapped regions;

calculating rational statistics of one or more the regions of the plurality, so that the statistics of a region are representative of the region, wherein the rational statistics are semi-global characteristics;

quantizing the rational statistics;

marking the digital good with the quantized rational statistics of the plurality of the regions, wherein the marking comprises embedding a watermark via quantization,

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wherein the calculating comprises generating the rational statistics of one or more regions of the plurality via a hashing function, h, that hashing function having quotient of two weighted, linear, statistical combinations, and where

$$h_i = \frac{\sum_{j \in R_i} \alpha_{ij} s_j}{\sum_{j \in R_i} b_{ij} s_j}$$

where:

- \bullet a_{ij} is the j^{th} element of a_i and a_i are a pseudo-random generated weight factors;
- ullet b_{ij} is the j^{th} element of b_i and b_i are a pseudo-random generated weight factors;
 - s denotes the digital good of dimension $N \times 1$;

 R_i are the plurality of regions, where $R_i \subseteq \{1,2,...,N\}.$

